

Process Solutions

Honeywell

Magma PCI Expansion Chassis PE3R

Installation Instructions

HWDOC-X279-en-A

December 2014

© Honeywell International Sàrl 2014. All Rights Reserved.

This document is the confidential and proprietary information of Honeywell. Reproduction and distribution of these materials without the express written consent of Honeywell is strictly forbidden.

While this information is presented in good faith and believed to be accurate, Honeywell disclaims the implied warranties of merchantability and fitness for a purpose and makes no express warranties except as may be stated in its written agreement with and for its customer.

In no event is Honeywell liable to anyone for any direct, special, or consequential damages. The information and specifications in this document are subject to change without notice.

These commodities, technology, or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited.

This product may contain or be derived from materials, including software, of third parties. The third party materials may be subject to licenses, notices, restrictions and obligations imposed by the licensor. The licenses, notices, restrictions and obligations, if any, may be found in the materials accompanying the product, in the documents or files accompanying such third party materials, in a file named `third_party_licenses` on the media containing the product, or at <http://www.honeywell.com/ps/thirdpartylicenses>.

Honeywell, Experion, and TotalPlant are US registered trademarks of Honeywell International Inc.

Other brand or product names are trademarks of their respective owners.

Symbol definitions

The following table lists the symbols used in this document to denote certain conditions.





Symbol	Definition
	NOTICE is used to address practices not related to physical injury.
	CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury. CAUTION symbol on the equipment refers the user to the product manual for additional information. The symbol appears next to required information in the manual.
	WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury. WARNING symbol on the equipment refers the user to the product manual for additional information. The symbol appears next to required information in the manual.
	DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

Table of contents

About this guide5

Chapter 1 Introduction.....6

1.1 Components6

Chapter 2 Installation.....8

2.1 Installing the PCI Express host.....8

2.2 Installing the ControlNet card inside the Magma Expansion Chassis 14

2.3 Installing the Magma Expansion Chassis in a server cabinet 14

Chapter 3 Operation of the Magma Expansion Chassis 16

3.1 Turn on the server 16

3.2 Normal operation of the Magma Expansion Chassis 16

3.3 Turn off the server 16

Notices 17

About this guide

This document provides detailed information on how to use the Magma PCI Expansion Chassis with Honeywell-configured Dell servers.

Revision history

Revision	Date	Description
A	December 2013	Initial release of the document.
B	December 2014	Added support for DL 360 P Gen 8

Related documents

The following list identifies publications that may contain information relevant to the information in this document.

Document name	Document number
PCI Expansion Chassis User's Guide By Magma Inc.	Manual P/N 09-04100-00-B

Chapter 1 Introduction


This document provides detailed information on how to use the Magma PCI Expansion Chassis with Honeywell-configured Dell servers.

You must use this PCI Expansion chassis only if you are planning to interface Honeywell-configured Dell Power Edge 12G servers (T320 and R320) and 11G servers (T610, R710, T310 and HP DL 360 P Gen 8 Server) on ControlNet, using PCI based PCIC-02 Control Net interface card.


These servers do not contain the inbuilt PCI slot. Therefore, you must use this Magma PCI Expansion box supplied with the package.

1.1 Components

The PE3R Magma SKU consists of following components:

Model/Part Number	Description
PE3R	Magma 3 Slot PCI Expansion system. <div></div>

Formatted Table

Model/Part Number	Description
PEHIFX1	PCI Express host card with 1 meter interface cable standard length. 
SUBCBL1.5HF	Interface Cable 1.5 meter.

Formatted Table

For more information about the Magma PCIE to PCI Expansion Chassis, see the *PCI Expansion Chassis User's Guide* and *Host Card Installation Guide* by Magma Inc. and supplied with the hardware.

Chapter 2 Installation

2.1 Installing the PCI Express host

Before installing the PCI Express (PCIE) host, see the following topics in the *PCI Expansion Chassis User's Guide* and *Host Card Installation Guide*:

- Hardware Installation
- Verify Installation

To install the PCIE host inside a server

1. Shut down the computer.
2. Remove the power cords from the rear end of the server and wait for 20 seconds.
3. Open the computer cover.
4. Identify the correct slot number for the PCIE host, depending on the server model:

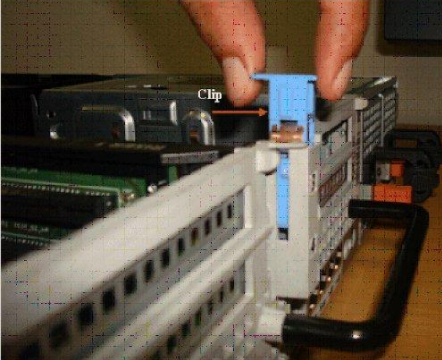
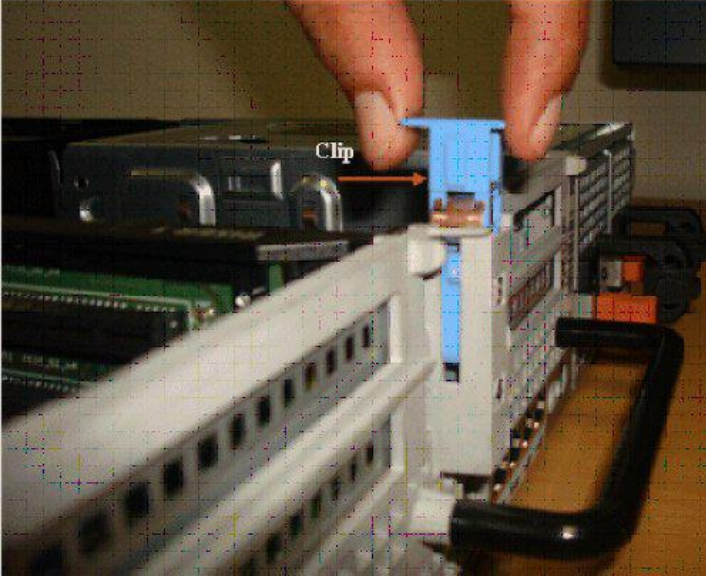
Server model	Slot No.	Slot Type
Dell PowerEdge T320 server	3	PCle_G3 x16 _CPU1
Dell PowerEdge R320 server	2	PCI Slot Gen 3 Slot 2
Dell PowerEdge R710 server	4	PClex8 Down (Near Power Supply Unit)
Dell PowerEdge T610 server	5	PCle x 4
Dell PowerEdge T310 server	4	PCle x 1
HP DL 360 P Gen 8 Server	1	PCle3X8 Low Profile Slot

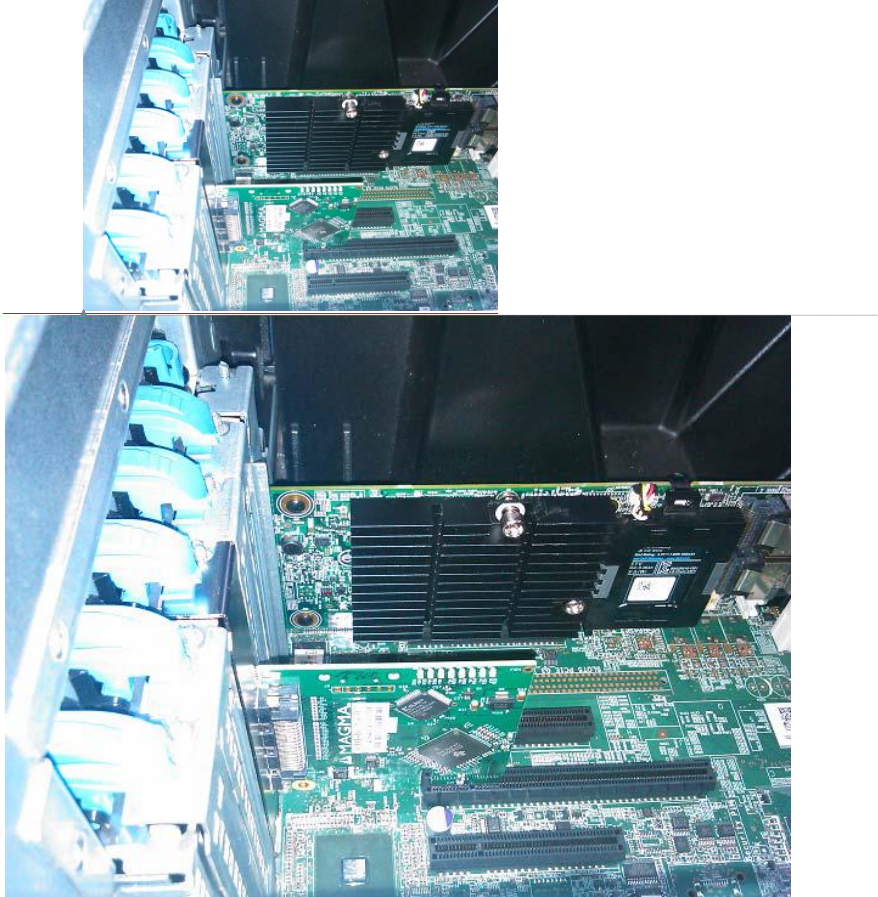
5. Prepare the required slot based on the server model:




Server	Steps
T310 and T610 servers	<p data-bbox="214 546 506 573">Remove the expansion card stabilizer.</p> <p data-bbox="214 573 831 600">Locate the Card retainers (Blue plastic expansion card retainer) as shown below.</p> <p data-bbox="214 600 769 627">Unlock card retainers to release the Metal Shield (Card Slot Blank plate).</p> <div data-bbox="253 632 776 932"> </div> <div data-bbox="220 945 980 1333"> </div>

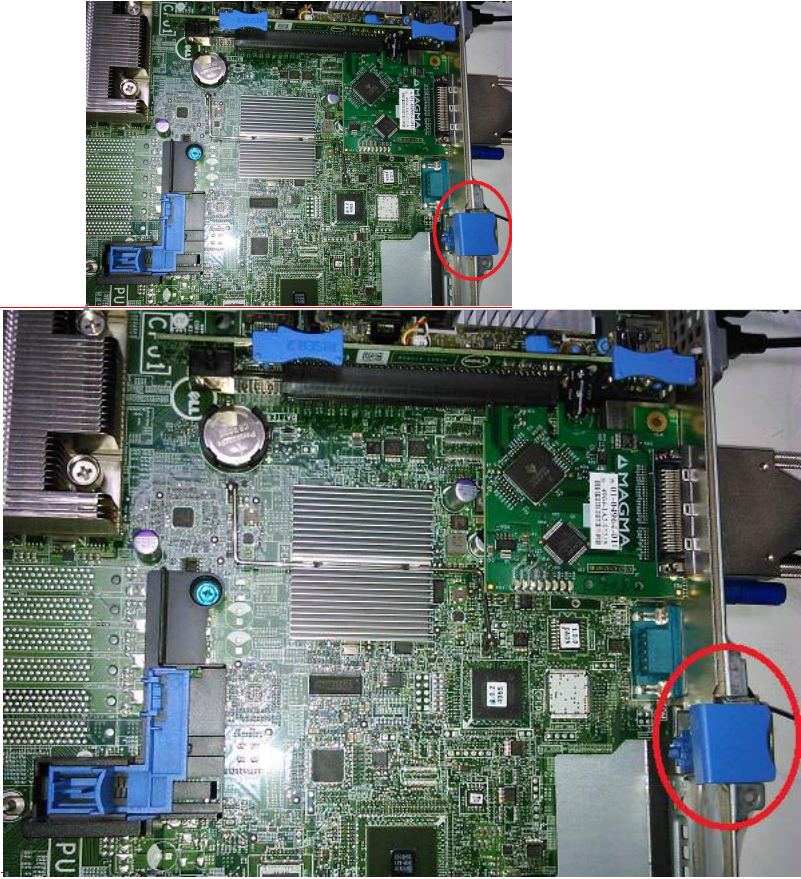
Formatted: Font: (Default) Arial

Server	Steps
R710 servers	<p data-bbox="215 552 1094 594">1. Locate the Card retainer Clip (Blue plastic expansion card retainer) as shown below. Pull out the clip to release the Metal Shield (Card Slot Blank plate).</p> <div data-bbox="272 636 711 993">  </div> <div data-bbox="220 1003 922 1577">  </div>

Server	Steps
T320 servers	<p data-bbox="215 548 1088 596">2. Locate the Card retainers (Blue plastic expansion card retainer) as shown below. Unlock card retainers to release the Metal Shield (Card Slot Blank plate).</p> 

Field Code Changed

Server	Steps
HP DL360 P Gen 8 Server	<ol style="list-style-type: none">On the Magma host card:<ol style="list-style-type: none">Replace bracket for Magma host card with small factor bracket provided with kit.On the HP DL360p server:<ol style="list-style-type: none">Locate the blue tab and lift the blue latch up.To disengage the thumbscrew, turn the blue latch 180 degrees (counter clock-wise).Lift the PCI riser cage and remove it from the server. <div></div>

Server	Steps
R320 servers	<p>1. Locate the Card retainer Clip (Blue plastic expansion card retainer) as shown below in red circle. Pull out the clip to release the Metal Shield (Card Slot Blank plate).</p> 

6. Insert the **Magma PCI Express Host card** into the slot identified in step 4.
7. Close the card **restrainer/clip** that was removed in step 5.
8. Replace the computer cover.

Notice! Do not connect the power cord to the computer.

Field Code Changed

2.2 Installing the ControlNet card inside the Magma Expansion Chassis

Notice! Ensure that the Magma Chassis is turned off.

Before installing third party hardware cards inside the Magma Chassis, see the following sections in the *PCI Expansion Chassis User's Guide* and *Host Card Installation Guide*:

- Hardware Installation
- Verify Installation

To install the ControlNet card inside the Magma Expansion Chassis

1. Open the Magma Chassis. For instructions, see the *PCI Expansion Chassis User's Guide* and *Host Card Installation Guide*.
2. Identify the correct slot number in the Magma Expansion chassis for installing the ControlNet card.

ControlNet card	Slot No.	Slot Type
ControlNet PCIC-02 card	2	PCI Slot

3. Close the Magma Expansion Chassis. For instructions, see the *PCI Expansion Chassis User's Guide* and *Host Card Installation Guide*.
4. Position the Magma Expansion Chassis so that the supplied PCI expansion cable will conveniently reach from the connector of the host card to the connector on the back of the chassis.
5. Connect the interface cable to both Magma Expansion Chassis and host card.
6. Tighten the thumbscrews at both end of the cable.
7. Connect all power cords to the Magma Expansion Chassis and Dell server. The Magma Expansion Chassis power-in receptacle is located at the rear of the chassis.

2.3 Installing the Magma Expansion Chassis in a server cabinet

If you are installing the Magma Expansion Chassis in a server cabinet, you should perform these steps before connecting the PCI expansion cable between the Magma Expansion Chassis and the Dell server.

To install the Magma Expansion Chassis in a server cabinet

1. Attach the rack mounting ears provided with the Magma Expansion Chassis to the chassis. For instructions, see the *PCI Expansion Chassis User's Guide* and *Host Card Installation Guide*.
The Magma Expansion Chassis must be mounted in the server cabinet or equipment rack immediately above the server, such that the server chassis provides a surface to physically support the Magma Expansion Chassis.
2. Connect the interface cable to both Magma Expansion Chassis and host card.

3. Tighten the thumbscrews at both end of the cable.

Chapter 3 Operation of the Magma Expansion Chassis

3.1 Turn on the server

Before you turn on the server, be aware of the following:

NOTICE

- Turn on the Magma Expansion Chassis before you turn on the server.
- The Magma Expansion Chassis on and off switch is located on the front of the chassis, as well as the back panel. Turn on both switches and monitor the power status LED indicator.
- Verify that the power status LED indicator is green (the Magma Expansion Chassis is on).

3.2 Normal operation of the Magma Expansion Chassis

During normal operation of the Magma Expansion Chassis, be aware of the following:

NOTICE

- Do not remove the interface cable connecting the server with the Magma Expansion Chassis when the Magma Expansion Chassis is on.
- Do not turn off the Magma Expansion Chassis during normal operation of the server.

If you fail to perform both this:

- The server operating system may stop unexpectedly with a stop error (blue screen).
- There may be loss of view.
- There may be loss of control if you are running a non-redundant Experion server.

3.3 Turn off the server

NOTICE

Turn off the server first and ensure that this is complete before you turn off the Magma Expansion Chassis. This will avoid issues where the server operating system may stop responding and/or potential data loss.

Notices

Documentation feedback

You can find the most up-to-date documents on the Honeywell Process Solutions support website at:

<http://www.honeywellprocess.com/support>

If you have comments about Honeywell Process Solutions documentation, send your feedback to:

hpsdocs@honeywell.com

Use this email address to provide feedback, or to report errors and omissions in the documentation. For immediate help with a technical problem, contact your local Honeywell Process Solutions Customer Contact Center (CCC) or Honeywell Technical Assistance Center (TAC) listed in the "Support and other contacts" section of this document.

How to report a security vulnerability

For the purpose of submission, a security vulnerability is defined as a software defect or weakness that can be exploited to reduce the operational or security capabilities of the software.

Honeywell investigates all reports of security vulnerabilities affecting Honeywell products and services.

To report a potential security vulnerability against any Honeywell product, please follow the instructions at:

<https://honeywell.com/pages/vulnerabilityreporting.aspx>

Submit the requested information to Honeywell using one of the following methods:

- Send an email to security@honeywell.com.
or
- Contact your local Honeywell Process Solutions Customer Contact Center (CCC) or Honeywell Technical Assistance Center (TAC) listed in the "Support and other contacts" section of this document.

Support and other contacts

For support, contact your local Honeywell Process Solutions Customer Contact Center (CCC).

North America

Country	Phone	Facsimile	Email
Canada and United States	800-822-7673	973-455-5000	askssc@honeywell.com

Northern Europe

Country	Local Time Business Hours	Phone	Facsimile	Email
Denmark	07:00 – 18:00	80–252165	+45 6980 2349	hpscusersupport@honeywell.com
Finland	08:00 – 19:00	0800–9–15938	+358 (0)9 2319 4396	hpscusersupport@honeywell.com
Ireland	06:00 – 17:00	1800939488	+353 (0)1 686 4905	hpscusersupport@honeywell.com
Netherlands	07:00 – 18:00	0800 020 3498	+31 (0)20 524 1609	hpscusersupport@honeywell.com
Norway	07:00 – 18:00	800–11478	47–852–287–16	hpscusersupport@honeywell.com
Sweden	07:00 – 18:00	0200883167	+46 (0)8 509 097 84	hpscusersupport@honeywell.com
United Kingdom	06:00 – 17:00	08002797226	+44 (0)20 3031 1064	hpscusersupport@honeywell.com

Southern Europe

Country	Local Time Business Hours	Phone	Facsimile	Email
Belgium	07:00 – 18:00	080048580	+32 (0)2 791 96 02	hpscusersupport@honeywell.com
France	07:00 – 18:00	0805100041	+33 (0)1 72 74 33 44	hpscusersupport@honeywell.com
Luxembourg	07:00 – 18:00	8002–8524	+352 24611292	hpscusersupport@honeywell.com
Spain	07:00 – 18:00	800099804	+34 91 791 56 25	hpscusersupport@honeywell.com
Portugal	06:00 – 17:00	800–8–55994	+34 91 791 56 25	hpscusersupport@honeywell.com

Eastern Europe

Country	Local Time Business Hours	Phone	Facsimile	Email
Bulgaria	08:00 – 19:00	700 20771	+359 (0)2 489 7384	hpscusersupport@honeywell.com
Croatia	07:00 – 18:00	0800 80 6392	+420 227 204 957	hpscusersupport@honeywell.com
Czech Republic	07:00 – 18:00	800 142 784	+420 227 204 957	hpscusersupport@honeywell.com
Hungary	07:00 – 18:00	06 800 20 699	+36 (06) 1 577 7371	hpscusersupport@honeywell.com
Poland	07:00 – 18:00	00 800 121 50 46	+48 22 485 35 10	hpscusersupport@honeywell.com
Romania	08:00 – 19:00	0 800 800 178	+40 (0)31 710 7590	hpscusersupport@honeywell.com
Russia Federation	09:00 – 20:00	8.10.80 02-412 50 11	+7 495 796 98 94	hpscusersupport@honeywell.com
Slovakia	07:00 – 18:00	0800 002 340	+421 (0)2 3301 0376	hpscusersupport@honeywell.com

Central Europe

Country	Local Time Business Hours	Phone	Facsimile	Email
Austria	07:00 – 18:00	0800 006438	+43 (0)1 253 6722 4904	hpscusersupport@honeywell.com
Germany	07:00 – 18:00	0800 7239098	+49 (0)30 6908 8463	hpscusersupport@honeywell.com
Greece	08:00 – 19:00	00800 12 9493	+30 21 1 268 6973	hpscusersupport@honeywell.com
Israel	08:00 – 19:00	1 809 407 309	+972 (0)2 591 6148	hpscusersupport@honeywell.com
Italy	07:00 – 18:00	8000 35205	+39 06 96681356	hpscusersupport@honeywell.com
Switzerland	07:00 – 18:00	00 080 035	+41 (0)31 560 41 60	hpscusersupport@honeywell.com

Middle East and South Africa

Country	Local Time Business Hours	Phone	Email
Bahrain	08:00 – 19:00	8008 1343	hpscusersupport@honeywell.com
Oman	08:00 – 19:00	8007 7595	hpscusersupport@honeywell.com
Qatar	08:00 – 19:00	800 5460	hpscusersupport@honeywell.com
Saudi Arabia	08:00 – 19:00	800 844 5309	hpscusersupport@honeywell.com
South Africa	07:00 – 18:00	0800 983 634	hpscusersupport@honeywell.com
Turkey	08:00 – 19:00	00800 448823587	hpscusersupport@honeywell.com
United Arab Emirates	09:00 – 20:00	8000 444 0300	hpscusersupport@honeywell.com

Other regions

In other regions, contact your local Honeywell Technical Assistance Center (TAC) for support.

Region	Phone	Facsimile	Email
Pacific	1300-364-822 (toll free within Australia) +61-8-9362-9559 (outside Australia)	+61-8-9362-9564	GTAC@honeywell.com
India	+91-20-6603-2718 / 19 1800-233-5051	+91-20-6603-9800	Global-TAC-India@honeywell.com
Korea	+82-80-782-2255 (toll free within Korea)	+82-2-792-9015	Global-TAC-Korea@honeywell.com

Region	Phone	Facsimile	Email
People's Republic of China	+86-21-2219-6888 800-820-0237 400-820-0386		Global-TAC-China@honeywell.com
Singapore	+65-6823-2215	+65-6445-3033	GTAC-SEA@honeywell.com
Japan		+81-3-6730-7228	Global-TAC-JapanJA25@honeywell.com

World Wide Web

Honeywell Process Solutions website:

<http://www.honeywellprocess.com/support>

Elsewhere

Contact your nearest Honeywell office.

For more information

To learn more about Honeywell's products or solutions visit www.honeywellprocess.com or contact your Honeywell account manager.

Process Solutions

Honeywell

1250 West Sam Houston Parkway South
Houston, TX 77042

Honeywell House, Skimped Hill Lane
Bracknell, RG12 1EB

Shanghai City Centre, 100 Junyi Road
Shanghai, China 20051

www.honeywellprocess.com

HWDOC-X279-en-A
December 2014
© 2014 Honeywell International Sàrl

Honeywell